VANTAGE

Plant Design

Global

Plant Design Global

Install Guide

Version 2.2

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1 Introduction

Note: Before you begin, PDMS Version 11.5 must be installed and running on the current system.

This guide explains how to install Plant Design Global 2.2, as supplied by AVEVA Solutions Ltd on a CD, onto a workstation which is running under the Windows operating system.

1.1 Hardware

The hardware and operating system requirements for Plant Design Global are the same as for PDMS 11.5. See the *VANTAGE PDMS Installation Guide.*

1.2 Software and Configuration

The software requirement and configuration for Plant Design Global under Windows are the same as those for PDMS, which should be installed and configured before installing Plant Design Global. See the *VANTAGE PDMS Installation Guide.*

1.3 The AVEVA Security File

You must have the correct AVEVA license file before you can use Plant Design Global. The file is controlled by the network security product called FLEXMAN. The version required for PDMS Global *2.1.n* (or higher) is FLEXMAN 3.1 (or higher). Please refer to the *FLEXMAN Installation Guide,* supplied with this release, if you need more information.

Global now requires licences for Hub and Satellites. At the hub location each project daemon will take out a GLOBAL licence entry. At each Satellite each project daemon will take out a GLOBALSAT licence.

2 Installation

You need to be the System Administrator or a Free User to install Plant Design Global under Windows.

2.1 Basic Installation

To install Plant Design Global:

1. Having loaded the installation CD, or accessed the installation files via some other route, select the product you want to install (in this case Plant Design Global 2.2), then click **INSTALL** or otherwise run **Setup.exe**. OK any confirmation forms which appear.
2. On the *File Download* form, select **Run this program from its current location** to install the program files directly from their current location (for example, the CD) onto your hard disk. Select the 'Run this program from its current location' and say **OK**.
3. This starts the InstallShield® Wizard, which will lead you through the rest of the installation process.

During the installation sequence, follow the on-screen instructions as they appear. You will be given a choice between two levels of installation:

- **Full installation:** Installs all available product components (recommended for a new installation unless there are good reasons for restricting the options available to end users).
- **Custom installation:** Presents you with a list of all available product components from which you can select those to be installed.

When prompted for a destination location, you *must* specify the directory in which PDMS has already been installed. (The default is C:\aveva\pdms11.5)

InstallShield checks that there is sufficient disk space available before it starts, and warns you if there is not.

When the process is complete, you should move the PDMS Global start menu program(s) to the relevant Profiles\All Users directory so that Plant Design Global start menu programs can be run by all users. See the *VANTAGE PDMS Installation Guide*. You must be a System Administrator to do this.

Note: If InstallShield detects an existing Plant Design Global installation, it will display the options for removing/reinstalling the files rather than simply offering the standard installation options. See Chapter 4 for further details.

2.2 Configuring the Plant Design Global GUI

The PDMS Applicationware files are stored in directories pointed to by the environment variable PMLLIB. PDMS needs an index file called **pml.index** to exist in each top-level directory in the PMLLIB path. The index file contains a list of all the PML files in the directory and all its subdirectories.

If you entered PDMS 11.5 before you installed Plant Design Global, you will need to run the **pmlscan** utility, supplied with PDMS, to re-index the Plant Design Global Applicationware files.

For example, if your %PDMSEXE% directory is c:\aveva\pdms11.5, and your PML files are stored in %PDMSEXE%\PMLLIB, give the commands:

```
cd /d c:\aveva\pdms11.5
pmlscan PMLLIB
```

Note: You must have write access to the PMLLIB directories so that pmlscan can create the pml.index file. When the index files have been created, you can make the PMLLIB directories read-only if required.

2.3 The Global Daemon

For details of starting the Global daemon, see the *VANTAGE Plant Design Global User Guide*.

- The Global daemon can be started as a background process, but if you close the process, or logout of the workstation on which you started the daemon, the Global daemon will stop.
- The Global daemon can be started as a standard Windows Service, in which case it is not necessary to remain logged in.

3 Installing the Global Daemon Services

The normal way of running the Global daemon is as a service. The files required are in the folder GlobalService in the PDMSEXE folder, and this folder must be copied to the local disk.

Two services are provided: one for a single project and one for multiple projects.

Note: The service normally runs as an administrator, and does not inherit any variables from the user login. This means that **all** variables required by the service must be set up in the batch file used by the service.

3.1 Location of files

To run the daemon as a service, the project directory and the daemon files must be on a local drive, since the service cannot map network drives.

A full installation of PDMS is not required, but the following list of files must be available on the local machine:

admind.exe	dformd.dll
project files (inc *vir.dat)	dop.exe
attlib.dat	message.dat

3.2 Single Project Service

To **install** a single project service for a project ABC, in a MS-DOS window type:

DemonServiceSingle /install /project ABC /location c:\globalService\singleds

where the batch file **singleds.bat** is in the folder c:\globalService. This will set all environment variables required to run the service for the single project ABC. Note that the **/location** parameter specifies the file

location of the batch file, not the PDMS location name. The sample batch file supplied in PDMSEXE should be edited as follows:

- Set the project variables correctly for the project. (Only ABC000, ABCPIC and ABCMAC variables are normally required.)
- Set PDMSEXE to the location of the globalService folder.
- Set PDMSWK to a valid local directory, e.g. c:\TEMP
- Set USERNAME to globaldaemon
- Set LM_LICENSE_FILE to a valid licence, e.g. 7152@server
- Set PATH to include the PDMSEXE location
- If transfer of other data files is required (see *Transfer of Other data* – Section 3.8.6 of the Global User Manual), then import (IMPORT) and export variables (EXP_XYZ for export to location XYZ) must also be set up.

Note: If the project is using Areas, these will also need to be set along with the other project variables.

This command must be run from a directory located on the local machine for the service to install. If it is executed from a mapped drive or UNC pathname then the service will not start when requested.

The command in this batch file to start or stop the daemon uses parameters. Do not replace parameter %1 by an explicit 'start', since this batch file is also used when stopping the service.

To **remove** the service, in a MS-DOS window type:

```
DemonServiceSingle /remove
```

If for any reason, the service will not start, it is possible to run the service from a MS-DOS window using:

```
demonServiceSingle /debug
```

This will assist in identifying the cause of the problem (for example, Project directory not set up). Note that the debug option runs the service program from the current user, whereas the service itself runs as a local system administrator. If the service fails to start or does not run the daemon, try running the batch file from a command (MSDOS) window (first unset variables in your command window):

```
C:\globalservice\singleds start ABC
```

This may show what is causing the daemon to stop, for example incorrect or missing variables.

3.3 Multiple project service

To **install** the multiple project service for a project ABC, in a MS-DOS window type:

DemonServiceMulti /install /location c:\globalService\multids

where the batch file **multids.bat** is in the directory c:\globalService. This will set all environment variables required to run the required projects. Note that the **/location** parameter specifies the file location of the batch file, not the PDMS location name. The sample batch file supplied in PDMSEXE should be customised for each machine. See comments for the single project service above.

In order to add projects to, or remove projects from, the service, the service must be stopped and then restarted with a modified batch file.

The start commands in this batch file to start or stop the daemon use parameters. Do not replace parameter %1 by an explicit 'start', since this batch file is also used when stopping the service.

When using a service which interacts with the desktop (see below), individual daemons can be started using an iconised window if the /MIN argument is used with the start command. For example:-

```
start ìProject basî /MIN c:\globalservice\admind.exe %1
sam service
```

Note: This command must be run from a directory located on the local machine for the service to install. If it is executed from a mapped drive or UNC pathname then the service will not start when requested.

To **remove** the service, in a MS-DOS window type:

DemonServiceMulti /remove

If for any reason, the service will not start, it is possible to run the service from a MS-DOS shell using:

DemonServiceMulti /debug

This will assist in identifying the cause of the problem (for example, Project directory not set up). Note that the debug option runs the service program from the current user, whereas the service itself runs as a Local system administrator.

Note: If the installation is unsuccessful, remove the service and install it again:

4 Uninstalling and Reinstalling

To remove installed components from your hard disk, or to add additional components to an existing installation, select **Start>Settings>Control Panel** and use the **Add/Remove Programs** option in the usual way.

As an alternative procedure, repeat Steps 1 to 3 of the installation sequence detailed in Section 2.1. The InstallShield® Wizard will detect your existing installation and will give you the following options:

- **Modify:** Displays the same list of options as the **Custom** installation (see Chapter 2). Select new components to be added and/or deselect any currently installed components to be removed.
- **Repair:** Reinstalls all currently installed components (to correct any corrupted files etc.).
- **Remove:** Removes all currently installed components.

5 Troubleshooting

5.1 Starting Plant Design Global under Windows

Error: The message form “Could not load application variables” appears when trying to enter Plant Design Global.

Explanation: Plant Design Global has not been installed in the same directory as PDMS.

Uninstall the misplaced Plant Design Global. Repeat the Plant Design Global installation and specify the correct directory.

5.2 Viewing Manuals

Error: “Windows cannot open this file: iindex.pdf. To open this file Windows needs to know what program created it.” when attempting to view manuals from the Start menu programs.

Explanation: The manuals are viewed using Acrobat Reader, which has not been installed on the machine.

Install Acrobat Reader from the AVEVA CD.